

FASTA searches a protein or DNA sequence data bank
version 3.3t05 March 30, 2000

Please cite:

W.R. Pearson & D.J. Lipman PNAS (1988) 85:2444-2448

/tmp/fastakaARTa4pQ: 1093 aa
>Lex 177 SEQ ID NO: 4 human semaphorin
vs /tmp/fastaLAASa4pQ library
searching /tmp/fastaLAASa4pQ library

1049 residues in 1 sequences

FASTA (3.34 January 2000) function [optimized, BL50 matrix (15:-5)] ktup: 2
join: 39, opt: 27, gap-pen: -12/-2, width: 16
Scan time: 0.050

The best scores are:

Lex 177 SEQ ID NO: 2 human semaphorin
(1049) 7485

opt

>>Lex 177 SEQ ID NO: 2 human semaphorin
(1049 aa)

initn: 7483 init1: 7483 opt: 7485

Smith-Waterman score: 7485; 99.904% identity in 1043 aa overlap (51-1093:7-1049)

	30	40	50	60	70	80
Lex	SHLSSSQDVSSEPSSEQQLCALSKHPTVAFEDLQPWVSNFTYPGARDFSQLALDPSGNQL					
					
Lex	MTVVNPQDLQPWVSNFTYPGARDFSQLALDPSGNQL					
	10	20	30			
	90	100	110	120	130	140
Lex	IVGARNYLFRLSLANVSLQATEWASSEDTRRSCQSKGKTEEECONYVRVLIVAGRKFVM					
					
Lex	IVGARNYLFRLSLANVSLQATEWASSEDTRRSCQSKGKTEEECONYVRVLIVAGRKFVM					
	40	50	60	70	80	90
	150	160	170	180	190	200
Lex	CGTNAFSPMCTSRQVGNLSRTIEKINGVARCPYDPRHNSTAVISSQGELYAATVIDFSGR					
					
Lex	CGTNAFSPMCTSRQVGNLSRTIEKINGVARCPYDPRHNSTAVISSQGELYAATVIDFSGR					
	100	110	120	130	140	150
	210	220	230	240	250	260
Lex	DPAIYRSLGSGPPLRTAQYNSKWLNEPNFVAAYDIGLFAYFFLRENAVEHDCGRTVYSRV					
					
Lex	DPAIYRSLGSGPPLRTAQYNSKWLNEPNFVAAYDIGLFAYFFLRENAVEHDCGRTVYSRV					
	160	170	180	190	200	210
	270	280	290	300	310	320
Lex	ARVCKNDVGGRFLLEDTWTTFMKARLNC SRPGEVPFYYNELQSAFHLPEQDLIYGVF TTN					
					
Lex	ARVCKNDVGGRFLLEDTWTTFMKARLNC SRPGEVPFYYNELQSAFHLPEQDLIYGVF TTN					
	220	230	240	250	260	270
	330	340	350	360	370	380
Lex	VNSIAASAVCAFNLSAISQAFNGPFYQENPRAAWLP IANPIPNFQCGTLPETGPNENLT					
					
Lex	VNSIAASAVCAFNLSAISQAFNGPFYQENPRAAWLP IANPIPNFQCGTLPETGPNENLT					
	280	290	300	310	320	330

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          390      400      410      420      430      440
Lex  ERSLQDAQRLFLMSEAVQPVTPEPCVTQDSVRFSLVVDLVQAKDTLYHVLYIGTESGTI
      .....
Lex  ERSLQDAQRLFLMSEAVQPVTPEPCVTQDSVRFSLVVDLVQAKDTLYHVLYIGTESGTI
      340      350      360      370      380      390

          450      460      470      480      490      500
Lex  LKALSTASRSLHGCYLEELHVLPPGRREPLRSLRILHSARALFVGLRDGVLRVPLERCAA
      .....
Lex  LKALSTASRSLHGCYLEELHVLPPGRREPLRSLRILHSARALFVGLRDGVLRVPLERCAA
      400      410      420      430      440      450

          510      520      530      540      550      560
Lex  YRSQGACLGARDPYCGWDGKQRCSTLEDSSNMSLWTQNITACPVRNVTRDGGFGPWSPW
      .....
Lex  YRSQGACLGARDPYCGWDGKQRCSTLEDSSNMSLWTQNITACPVRNVTRDGGFGPWSPW
      460      470      480      490      500      510

          570      580      590      600      610      620
Lex  QPCEHLDDGNSGSCLCRARSCLSPRPRCGGLDCLGPAIHIANCSRNGAWTPWSSWALCST
      .....
Lex  QPCEHLDDGNSGSCLCRARSCLSPRPRCGGLDCLGPAIHIANCSRNGAWTPWSSWALCST
      520      530      540      550      560      570

          630      640      650      660      670      680
Lex  SCGIGFQVRQRSCSNPAPRHGGRICVGKSREERFCNENTPCPVPIFWASWGSWSKCSSNC
      .....
Lex  SCGIGFQVRQRSCSNPAPRHGGRICVGKSREERFCNENTPCPVPIFWASWGSWSKCSSNC
      580      590      600      610      620      630

          690      700      710      720      730      740
Lex  GGGMQSRRRACENGNSCLGCGVEFKTCNPEGCPEVRRNTPWTPWLVPVNTQGGARQEQR
      .....
Lex  GGGMQSRRRACENGNSCLGCGVEFKTCNPEGCPEVRRNTPWTPWLVPVNTQGGARQEQR
      640      650      660      670      680      690

          750      760      770      780      790      800
Lex  RFTCRAPLADPHGLQFGRRRTETRTCPADGSGSCDTDALVEDLLRSGSTSPHTVSGGWAA
      .....
Lex  RFTCRAPLADPHGLQFGRRRTETRTCPADGSGSCDTDALVEDLLRSGSTSPHTVSGGWAA
      700      710      720      730      740      750

          810      820      830      840      850      860
Lex  WGPWSSCSRDCLELGFVRKRTCTNPEPRNGGLPCVGDAAEYQDCNPQACPVRGAWSCWTS
      .....
Lex  WGPWSSCSRDCLELGFVRKRTCTNPEPRNGGLPCVGDAAEYQDCNPQACPVRGAWSCWTS
      760      770      780      790      800      810

          870      880      890      900      910      920
Lex  WSPCSASCGGGHYQRTSCTSPAPSPGEDICLGLHTEEALCATQACPEGWSPWSEWSKCT
      .....
Lex  WSPCSASCGGGHYQRTSCTSPAPSPGEDICLGLHTEEALCATQACPEGWSPWSEWSKCT
      820      830      840      850      860      870

          930      940      950      960      970      980
Lex  DDGAQSRSRHCEELLPGSSACAGNSSQSRPCPYSEIPVILPASSMEEATGCAGFNLIHLV
      .....
Lex  DDGAQSRSRHCEELLPGSSACAGNSSQSRPCPYSEIPVILPASSMEEATGCAGFNLIHLV
      880      890      900      910      920      930
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          990      1000      1010      1020      1030      1040
Lex  ATGISCFLGSGLLTLAVYLSCQHCQRQSQUESTLVHPATPNHLHYKGGGTPKNEKYTPMEF
      ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Lex  ATGISCFLGSGLLTLAVYLSCQHCQRQSQUESTLVHPATPNHLHYKGGGTPKNEKYTPMEF
      940      950      960      970      980      990

          1050      1060      1070      1080      1090
Lex  KTLNKNLIPDDRANFYPLQQTNVYTTTTYYPSPLNKHSFRPEASPGQRCFPNS
      ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Lex  KTLNKNLIPDDRANFYPLQQTNVYTTTTYYPSPLNKHSFRPEASPGQRCFPNS
      1000      1010      1020      1030      1040
```

1093 residues in 1 query sequences

1049 residues in 1 library sequences

Scomplib [version 3.3t05 March 30, 2000]

start: Wed Oct 29 10:33:25 2003 done: Wed Oct 29 10:33:26 2003

Scan time: 0.050 Display time: 1.567

Function used was FASTA